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Datasheet for ABIN3044414 anti-Aromatase antibody (C-Term)

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4 Publications



Overview

Quantity:	100 µg
Target:	Aromatase (CYP19A1)
Binding Specificity:	AA 485-503, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aromatase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Aromatase(CYP19A1) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Aromatase(485- 503aa KNMLEMIFTPRNSDRCLEH).
Sequence:	KNMLEMIFTP RNSDRCLEH
Isotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Aromatase(CYP19A1) detection. Tested with WB, IHC-P in Human. Gene Name: cytochrome P450, family 19, subfamily A, polypeptide 1 Protein Name: Aromatase

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Product Details

Purification:

Immunogen affinity purified.

Target Details

Target:	Aromatase (CYP19A1)
Alternative Name:	CYP19A1 (CYP19A1 Products)
Background:	Aromatase is an enzyme responsible for a key step in the biosynthesis of estrogens. It is a
	member of the cytochrome P450 superfamily, which are monooxygenases that catalyze many
	reactions involved in steroidogenesis. In particular, aromatase is responsible for the
	aromatization of androgens into estrogens. The CYP19 gene spans at least 70 kb of genomic
	DNA and contains 10 exons. By in situ hybridization, the ARO gene is mapped to 15q21.1. The
	aromatase enzyme can be found in many tissues including gonads, brain, adipose tissue,
	placenta, blood vessels, skin, bone, and endometrium, as well as in tissue of endometriosis,
	uterine fibroids, breast cancer, and endometrial cancer. It is an important factor in sexual
	development. Some bodybuilders taking steroids also take antiaromatase supplements to
	prevent excess testosterone conversion into estrogens, which can cause gynecomastia.
	Synonyms: ARO 1 antibody ARO antibody ARO1 antibody Aromatase antibody CP19A_HUMAN
	antibody CPV antibody CPV1 antibody CYAR antibody CYP19 antibody CYP19A1
	antibody CYPXIX antibody Cytochrome P-450AROM antibody Cytochrome P450 19A1
	antibody Cytochrome P450 family 19 subfamily A polypeptide 1 antibody Cytochrome P450,
	family 19, subfamily A, polypeptide 1 antibody Cytochrome P450, subfamily XIX(aromatization
	of androgens) antibody Estrogen synthase antibody Estrogen synthetase antibody Flavoprotein
	linked monooxygenase antibody MGC104309 antibody Microsomal monooxygenase
	antibody OTTHUMP00000162543 antibody OTTHUMP00000198350 antibody P 450AROM
	antibody P450AROM antibody
UniProt:	P11511
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Steroid Hormone Biosynthesis, C21-Steroid
	Hormone Metabolic Process, Carbohydrate Homeostasis
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of

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	formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be
	fit for the product based on sequence similarities. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

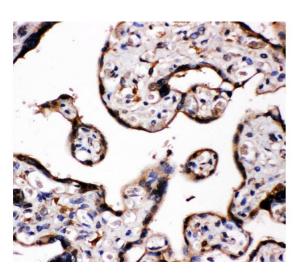
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months
Publications	
Product cited in:	Zhang, Zhang, Zhang, Lu, Li, Cui: "MiRNA-143 mediates the proliferative signaling pathway of FSH and regulates estradiol production." in: The Journal of endocrinology , Vol. 234, Issue 1, pp 1-14, (2017) (PubMed).
	Zhang, Yang, Zou, Lu, Xiong, Wu, Wang, Gao, Xu, Zou: "Estradiol synthesis and release in cultured female rat bone marrow stem cells." in: BioMed research international , Vol. 2013, pp.
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Zhao, Tian, Hao, Chen: "Extragonadal aromatization increases with time after ovariectomy in rats." in: **Reproductive biology and endocrinology : RB&E**, Vol. 3, pp. 6, (2006) (PubMed).

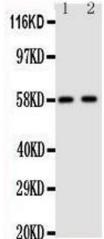
Zhao, Tian, Chen: "Electroacupuncture stimulates hypothalamic aromatization." in: **Brain research**, Vol. 1037, Issue 1-2, pp. 164-70, (2005) (PubMed).

Images



Immunohistochemistry

Image 1. Anti-Aromatase antibody, IHC(P) IHC(P): Human Placenta Tissue



Western Blotting

Image 2. Anti-Aromatase antibody, Western blotting Lane 1: Human Placenta Tissue Lysate Lane 2: Human Placenta Tissue Lysate

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